

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	52	(n near type) near Cu	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 18:19
S2	64	(n near type) near (Cu copper)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 18:19
S3	34	S2 and (polycrystalline (poly near crystal\$5) (multi near crystal\$5) multicrystalline)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 18:51
S4	23	("3,990,101" "4,160,678" "4,191,593" "4,365,107" "4,710,589" "4,873,198" "4,977,097" "5,006,180" "5,007,971" "5,024,706" "5,141,564" "5,210,766" "5,436,204" "5,858,121" "5,87,1,630" "5,948,176" "5,981,868" "6,023,020" "6,107,562" "6,121,541" "6,153,895" "6,259,016" "20020096206").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 21:47
S5	19	S4 and (Cu copper)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 18:53
S10	7	(wager-john keszler-douglas).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/15 19:07
S11	1	"5744864".PN.	USPAT; USOCR	OR	OFF	2007/07/15 19:06
S12	1	"6455875".PN.	USPAT; USOCR	OR	OFF	2007/07/15 19:07
S13	7045	(wager keszler)"in."	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/15 19:09
S14	62	S13 and (solar photovoltaic photocell)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:09
S15	223	(wager keszler).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/15 19:10
S16	3	S15 and (solar photovoltaic photocell)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:10

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S17	468	(wager keszler).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/15 19:10
S18	6	S17 and (solar photovoltaic photocell)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/15 19:22
S19	42	"5436204"	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:28
S20	0	(Ba Sr Ca) near (Cu copper) near (S sulfide sulfur) near (F fluoride fluorine)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:29
S21	25853	(Ba Sr Ca) same (Cu copper) same (S sulfide sulfur) same (F fluoride fluorine)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:30
S22	708	S21 and semiconductor	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:30
S23	75	S22 and (pin p-i-n p/i/n)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:31
S24	18	S23 and (solar photovoltaic photocell)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:35
S25	15	("CaCu.sub.2S.sub.2" CaCuSF "SrCu.sub.2S.sub.2" SrCuSF "BaCu.sub.2S.sub.2" BaCuSF)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:44
S26	274902	(Cu-Sulfide CuS)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:45
S27	1438	136/258.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:45
S28	290	136/264.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:46
S29	276	136/265.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:46

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S30	467	S27 and (Cu copper)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:46
S31	314	S30 and (S sulfide)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:50
S32	128	S28 and (Cu copper) and (S sulfide)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:47
S33	180	S29 and (Cu copper) and (S sulfide)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 19:47
S34	319	(S31 S32 S33) and (CuS (copper near sulfide))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 20:47
S35	66300	(solar near cell) photovoltaic photocell	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 20:48
S36	120	S35 and (Cu copper) near semiconduct\$5	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 20:49
S37	29	S36 and (pin p-i-n p/i/n)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/15 20:49
S12 9	442	136/243-293.ccls. and CIS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/22 16:30
S13 9	19	(wagner-john keszler-douglas).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 18:27
S14 0	12138	polycrystalline.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 18:32

## EAST Search History

S14 1	1	S140 and 136/243.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 18:28
S14 2	5	(john-wagner douglas-keszler).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 18:33
S14 3	270	136/243.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 18:36
S14 4	2404	136/258.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 18:36
S14 5	328	136/264.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 18:36
S14 6	308	136/265.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 18:40
S14 7	281	("3990101" "4,160,678" "4,191,593" "4,365,107" "4,710,589" "4,873, 198" "4,977,097" "5,006,180" "5, 007,971" "5,024,706" "5,141,564" "5,210,766" "5,436,204" "5,858, 121" "5,87,1,630" "5,948,176" "5, 981,868" "6,023,020" "6,107,562" "6,121,541" "6,153,895" "6,259, 016" "20020096206")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 18:43

## EAST Search History

S14 8	46	("3990101" "4,160,678" "4,191,593" "4,365,107" "4,710,589" "4,873,198" "4,977,097" "5,006,180" "5,007,971" "5,024,706" "5,141,564" "5,210,766" "5,436,204" "5,858,121" "5,87,1,630" "5,948,176" "5,981,868" "6,023,020" "6,107,562" "6,121,541" "6,153,895" "6,259,016" "20020096206").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON.	2007/07/25 18:43
S14 9	16	S148 and (copper Cu2S2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 19:00
S15 0	0	S148 and (Cu2S2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 18:45
S15 1	14868	((solar near cell) photovoltaic photocell) and ((copper sulfide) Cu2S2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 19:01
S15 2	2620	S151 and polycrystalline	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 19:10
S15 4	4	("5981868" "6121541").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 19:06
S15 5	712	S152 and (pin p/i/n p-i-n nip n/i/p n-i-p)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 19:20

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S15 6	39	S155 and ((copper near sulfide) Cu2S2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 10:26
S16 3	1	"4335266".PN.	USPAT; USOCR	OR	OFF	2007/07/26 15:04
S16 4	13	136/243-293.ccls. and chalcopyrite and (pin nip p/i/n n/i/p p-i-n n-i-p)	USPAT; USOCR	OR	OFF	2007/07/26 15:32
S16 6	3272	((n-type) same (Cu copper)) and ((p-type) same (Cu copper))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 15:35
S16 7	665	S166 and ((solar near cell) photovoltaic photocell)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 15:40
S16 8	167	S166 and ((solar near cell) photovoltaic photocell) and (pin nip p/i/n n/i/p p-i-n n-i-p)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 16:06
S17 0	10	n-type near (Cu copper) and (solar photovoltaic photocell)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 17:12
S17 2	1	(pin nip p/i/n n/i/p p-i-n n-i-p) and (n-type) near (Cu copper)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 17:15

## EAST Search History

S17 3	2	(pin nip p/i/n n/i/p p-i-n n-i-p) and (n-type (n near type)) near (Cu copper)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 17:17
S17 4	7	(pin nip p/i/n n/i/p p-i-n n-i-p) and (n-type (n near type)) same chalcopyrite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 17:23
S17 5	17	wagner-john.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 17:27
S17 6	27931	wagner.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 17:27
S17 7	214	S176 and (solar photovoltaic photocell)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 17:32
S17 9	0	CuxS/BaCu2S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 17:35
S18 0	0	(CuxS near BaCu2S2) (Cu2S near BaCu2S2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 17:42

## EAST Search History

S18 1	8	heterojunction near (Cu copper)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 17:50
S18 2	3	136/243-293.ccls. and CuxS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 17:54
S18 3	7	("5286306" "6228243" "6562702"). pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 18:00
S18 6	8	p-CIS and n-CIS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/26 20:04